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 Substitute for form 1449A/B/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	7	Attorney Docket Number	LYMF-P04-007
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
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AC	US-3,125,597		03-17-1964	Wahl et al.	
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		Country Code <sup>3</sup> -Number-Kind Code <sup>4</sup> (if known)	MM-DD-YYYY			
BE	EP 0 731 697		09-18-1996			
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Substitute for form 1449A/B/PTO			Complete if Known		
			Application Number	10/593,851	
			Filing Date	September 22, 2006	
			First Named Inventor	Chaim M. Roifman	
			Art Unit	Not Yet Assigned	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	7	Attorney Docket Number	LYMF-P04-007

BO	JP-9-230585	09-05-1997			
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BE1	WO-03/030895-A1	04-17-2003	The Hospital for Sick Children		
BF1	WO-01/79158-A2	10-25-2001	HSC Research and Development Limited Partnership		

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.:** Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if applicable. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CA	Abdel-Rahman (1991). "Inverse electric demand Diels-Alder reactions of electron-withdrawing-group-substituted 1,3-butadiene derivatives with enamines. Synthesis of cyclohexene derivatives," M.A. Sohag Pure Appl. Sci. Bull. 7:30-40, ACS abstract AN 118:212527 CA only.		
CB	Adachi, T. et al. (1999). "A Novel Lyn-Binding Peptide Inhibitor Blocks Eosinophil Differentiation, Survival, and Airway Eosinophilic Inflammation," Journal of Immunology 163:939-946.		
CC	Astle, M.J. and Gergel, W.C. "Catalysis with ion exchange resins. Knoevenagel condensations of cyanoacetic acid," Chemical Abstracts 51:2641g.		
CD	Balalaei, S. and Nemati, N. (2000). "Ammonium acetate-basic alumina catalyzed Knoevenagel condensation under microwave irradiation under solvent-free condition," Synthetic Communications 30(5):869-875.		
CE	Bandgar, B.P. et al. (1997). "Condensation of alpha-cyanothioacetamide with aldehydes catalyzed by Envirocat EP2G," Synthetic Communications 27(7):1153-1156.		
CF	Banerjee PK and Amidon GL. (1985). "Design of prodrugs based on enzymes-substrate specificity," In Design of Prodrugs, Bundgaard H, ed. Elsevier: New York, pp. 93-133.		
CG	Cabello, J.A. et al. (1984). "Knoevenagel Condensation in the Heterogeneous Phase Using AlPO <sub>4</sub> -Al <sub>2</sub> O <sub>3</sub> as a New Catalyst," Journal of Organic Chemistry 49(26):5195-5197.		
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(Use as many sheets as necessary)					
Sheet	3	of	7	Attorney Docket Number	LYMF-P04-007

CH	Chen, J.J. and Wang I.J. (1995). "Synthesis and Fluorescence Behaviour of Some 3-Cyano-4-Substituted 6-Pyrenyl-2-Pyridone Derivatives." <i>Dyes and Pigments.</i> , 27(3):249-259.	
CI	Choudary, B.M. et al. (1999). "Knoevenagel and aldol condensations catalysed by a new diamino-functionalized mesoporous material," <i>Journal of Molecular Catalysis A: Chemical</i> 142(3):361-365.	
CJ	Conqueret, Xavier (1999). "Photoreactivity of polymers with dimerizable side-groups: Kinetic analysis for probing morphology and molecular organization," <i>Macromolecular Chemistry and Physics</i> 200:1567-1579.	
CK	Costisella, B., Gross, H. (1984). "alpha-Substituted phosphonates. 46. 1-Cyanoethylene-1-amines and 1-cyanotriene-1-amines via the Homer reaction," <i>Z. Chem.</i> 24(10):383-384 (in German) and ACS Abstract AN 103:6414 CA.	
CL	Dai, C. et al. (1982). "Structural effect in forked conjugative systems, Bifurcation-type of forked polyenic nitriles, carboxylic acids and esters," <i>Scientia Sinica. Series B, Chemical, biological, agricultural, medical &amp; earth sciences / Chung-kuo K'o hsueh yuan, chu pan.</i> (Engl. ed.) 25(10):1023-1034.	
CM	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1954179 (BRN), XP002179056	
CN	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1959697 (BRN), XP002179057	
CO	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1983526 (BRN), XP002179052	
CP	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2329569 (BRN), XP002179053	
CQ	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2331300 (BRN), XP002179051	
CR	Database Crossfire Beilstein 'Onlinel Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 5905971 (BRN), XP002179055	
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CT	DeLombart, S. and Ghosez, L. (1984). "Synthesis and phase-transfer mediated alkylations of 2-Diethylamino-4-Phenylsulfonyl-2-butenenitrile an efficient homoenolate equivalent," <i>Tetrahedron Letters.</i> 25:3475-3478.	
CU	DeSa, A.J., S.L. and Pitta, I. DaR (1979). "Synthesis and spectroscopic study of ethyl 2-cyano-5-phenyl-2,4-pentadienoate and two of its derivatives," <i>An. Assoc. Bras. Quim.</i> 30:113-116 (in Portuguese with English abstract) and ACS Abstract AN 96:34120.	
CV	Enk, A.H. and Knop, J. (2000). "T-Cell Receptor Mimic Peptides And Their Potential Application In T-Cell Mediated Disease" <i>Int Arch Allergy Immunol</i> 123:275-281.	
CW	Eugster, C. H. et al. "New type condensation reactions with isoazoles-an extension of the Ritter reaction." <i>Chemical Abstracts</i> 59:585b.	
CX	Faußer A.A. and Messner H.A. (1978). "Granulocythropic Colonies In Human Bone Marrow, Peripheral Blood, And Cord Blood," <i>Blood</i> , 52(6), 1243-1248.	
CY	Foucaud, A. and Bakouletia, M. (1987). "Facile Epoxidation of Alumina-Supported Electrophilic Alkenes and Montmorillonite-Supported Electrophilic Alkenes with Sodium Hypochlorite," <i>Synthesis</i> 9:854-856.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/593,851
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Sheet	4	of	7	First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	LYMF-P04-007

CZ	Freedman, M.H. et al. (1992). "Central Role Of Tumour Necrosis Factor, GM-CSF, and Interleukin 1 In The Pathogenesis Of Juvenile Chronic Myelogenous Leukaemia," Br J Haematol. 80(1):40-48.	
CA1	Freeman, F. (1980). "Properties and Reactions of Ylidemalononitriles," Chem. Rev. 80:329-350.	
CB1	Frohardt, R. P. et al. "Chemistry of streptimidone. A new antibiotic," Chemical Abstracts 54:3192h.	
CC1	Gazit, A. et al. (1991). "Tyrophostins. 2. Heterocyclic And Alpha-Substituted Benzylidemalononitrile Tyrophostins As Potent Inhibitors Of EGF Receptor and ErbB2/neu Tyrosine Kinases," J. Med. Chem. 34:1896-1907.	
CD1	Grinstein, V. and Serina, L. (1963). "Cyanothioacetamide and its derivatives," Chemical Abstracts 60: 5391h.	
CE1	Halestrap, A.P. (1975). "The Mitochondrial Pyruvate Carrier. Kinetics and specificity for substrates and inhibitors," Biochemical Journal 148(1):85-96.	
CF1	Halestrap, A.P. (1976). "The Mechanism of the Inhibition of the Mitochondrial Pyruvate Transporter by alpha-Cyanocinnamate Derivatives," Biochemical Journal 156(1):181-183.	
CG1	Hassan, H.H. et al. (1986). "Some reactions of 2-Cinnamylidene and 2-Benzylidene-1,3-Indandione," Pak. J. Sci. Ind. Res. 29:105-107.	
CH1	Ho, Y.W. and Wang, I.J.J. (1995). "Studies on the Synthesis of Some Styryl-3-cyan-2(1H)-pyridine-thiones and Polyfunctionally Substituted 3-Aminothieno[2,3-b]-pyridine Derivatives," Journal of Heterocyclic Chemistry 32(3):819-825.	
CI1	Hu, Weixiao et al. (1985). "Differential pulse polarography on bifurcate conjugate systems. I. Homologous progressive change of the peak potential," Fenzi Kexue Yu Huaxue Yanjiu 5(1):87-92, ACS Abstract AN 104:5348 CA only.	
CJ1	Ichimura, K. et al. (1987). "Photosensitive Resins Containing p-Dimethylaminobenzylidene Derivatives and Diphenyliodonium Salt as Photoinitiators," Journal of Applied Polymer Science 34(8):2747-2756.	
CK1	Iizawa, T. et al. (1983). "Studies of photopolymer. XX. Synthesis of photosensitive polymers with pendant photosensitive groups and photosensitizer groups," Kobunshi Ronbunshu 40:425-432 QD 281 P6 K752 (in Japanese with English abstract) and ACS Abstract AN 99:123029 CA.	
CL1	Jukhnovskii, I. and Binev, I. (1977). "Infrared Spectra and Structure of Carbanions - XIV. Isomeric Carbanionic adducts of some substituted cyano-polyenes," Bulletin des Societes Chimiques Belges 86(10):793-798.	
CM1	Kantam, M.L. et al. (1998). "Aldol and Knoevenagel condensations catalysed by modified Mg-Al hydroxalcite: a solid base as catalyst useful in synthetic organic chemistry," Chemical Communications (Cambridge England) 9:1033-1034.	
CN1	Kasuya, C. S. et al. (1999). "Regulation of IL-15-Simulated TNF-alpha Production by Rolipram," Journal of Immunology 163:2836-2843.	
CO1	Konwar, D. et al. (1998). "Organic Synthesis with Anion-exchange Resins: Reaction of Imines with Active Methylene Compounds," Journal of Chemical Research Synopsis 6:342-343.	
CP1	Krishan, K. and Singh, N. (1974). "Reactions of Open-Chain Conjugated Nitrones with Active Methylen Compounds," J. Indian Chem. Soc. 51(9): 802-804.	
CQ1	Kryshťal, G.V. et al. (1980). "New possibilities for the synthesis of polyfunctional cyclopropanes under interphase catalysis conditions in a liquid-solid phase system," Izvestiya Akademii nauk SSSR Seria khimicheskaya 10:2420-2423 (in Russian) and ACS Abstract AN 94:46812 CA.	
CR1	Kryshťal, G.V. et al. (1979). "Phase-Transfer Catalysis of the Michaeli Addition to alpha,beta-Unsaturated Aldehydes," Synthesis 2:107-109.	

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Sheet	5	of	7	Filing Date	September 22, 2006
				First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	LYMF-P04-007

CS1	Kurkovskaja, L.N. et al. (1995). "H and 13C NMR Spectrum-Structure correlations for a series of polyene compounds," <i>Zhurnal Strukturnoi Khimii</i> , English, <i>Journal of Structural Chemistry</i> 36(4):638-642.
CT1	Lechat, J.R. et al. (1961). "Ethyl 2-Cyano-5-phenyl-(2E,4E)-pentadienoate," <i>Acta Crystallographic Section B: Structural Science</i> B37(7):1470-1471.
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CW1	Lin, T. et al. (1993). "Transition metal polyhydrides-catalyzed addition of activated nitriles to aldehydes and ketones via Knoevenagel condensation," <i>Journal of Organometallic Chemistry</i> 448(1-2): 215-218.
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CZ1	Martelli, J. et al. (1978). "Orientation and primary site in the addition of diazomethane on some substituted butadienes. Theoretical interpretation," <i>Nouv. J. Chim.</i> 2:609-613 and ACS Abstract AN 90:120818 CA.
CA2	Matsuoka, M. et al. (1990). "Cyanovinylheteroaromatics for Organic Nonlinear Optics," <i>Molecular Crystals and Liquid Crystals Science and Technology Section A</i> 182A:71-79.
CB2	Messner H. A. and Fauser, A. A. (1980). "Culture Studies Of Human Pluripotent Hemopoietic Progenitors," <i>Blut</i> , 41(5): 327-333.
CC2	Minami, T. et al. (1983). "Synthesis of Butadienylphosphonates containing electronegative substituents and their synthetic applications to functionalized cyclopentenylphosphonates," <i>Tetrahedron Lett.</i> 24(6):767-770.
CD2	Minami, T. et al. (1985). "Cycloaddition of Diazomethane to Butadienylphosphonates. A New Approach of Functionalized Pentadienylphosphonates and Pyrazoles," <i>Chem. Lett.</i> 1985 8:1099-1102.
CE2	Mohan, S. and Sandhu, J.S. (1971). "Addition of Diazomethane on Strongly Electrophilic Olefins," <i>Journal of the Indian Chemical Society</i> 48(3):305-306.
CF2	Nesterov, V.N. et al. (2000). "trans,trans-2-Cyano-5-(4-methoxy-phenyl)pent-2,4-dienethoamide," <i>Acta Crystallographica Section C: Crystal Structure Communications</i> C56(1):88-89.
CG2	Nguyen, K.S. et al. (1974). "Sulfur heterocyclic compounds. LXIX. Synthesis and structure of variously substituted 2-amino-5-thiaacylohexaphosphoranes," <i>Bulletin de la Societe Chimique de France</i> 3-4 Pt. 2:471-474 (in French) and ACS Abstract AN 81:63423 CA.
CH2	Ooms, P. et al. (1976). "Chemistry of Tetra-alkoxyethenes. Part VII. Thermal [2+2] Cycloadditions with 1-Cyanobutadienes" <i>Journal of the Chemical Society, Perkin Transactions 1</i> 114: 1538-1543.
CI2	Piskov, V. B. (1967). "Tetracycline analogs. I. General preparation of beta-aryl-beta-1-carboxymethylpimelic acids" <i>Zhurnal Organicheskoi Khimii</i> 3(2):416-419 (in Russian) and ACS Abstract AN 66:115418 CA.
CJ2	Popp, F. and Catala, A. (1961). "Synthesis of 3-hydroxypyridines. II. The preparation of unsaturated cyano esters and their reaction with diazo-methane" <i>J. Org. Chem.</i> 26(8):2738-2740.

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CK2	Prajapati D. and Sandhu, J.S. (1992). "Bismuth(III)chloride as a New Catalyst for Knoevenagel Condensation in the Absence of Solvent" <i>Chemistry Letters</i> . 10:1945-1946.
CL2	Prajapati, D. and Sandhu, J.S. (1993). "Lithium bromide as a new catalyst for carbon-carbon bond formation in the solid state" <i>J. Chem. Soc., Perkin Transactions 1</i> :959-960.
CM2	Prajapati, D. et al. (1993). "Cadmium Iodide as a New Catalyst for Knoevenagel Condensations," <i>J. Chem. Soc., Perkin Transactions 1</i> : 739-740.
CN2	Puccetti, G., Bott, S.G. (1998). "Efficient two-photon-induced fluorescence in a new organic crystal" <i>J. Opt. Soc. Am. B</i> 15(2):789-901.
CO2	Pudovik, AN, Yastrebova, G.E., Nikitina, V.I. (1968). "Condensations of (cyanomethyl)Phosphonic Esters" <i>Zh. Obschh. Khim.</i> 39(2):301-305.
CP2	Rao, P.S. and Venkataraman, R.Y. (1991). "Zinc Chloride as a new catalyst for Knoevenagel condensation" <i>Tetrahedron Letters</i> 32:5821-5822.
CQ2	Rao, Y.V. and Choudary, B.M. (1991). "Knoevenagel condensation catalysed by new montmorillonitesilylpropylethlenediamine" <i>Synthetic Communications</i> 21(10-11):1163-1166.
CR2	Roucoux, C. et al. (1981). "Photochemistry of Polymeric Systems. III. Photocrosslinking of Polymers and Copolymers Including Cyanocinnamylidene-Pyridinium Groups" <i>Journal of Applied Polymer Science</i> 26(4):1221-1232.
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CT2	Ruckert, R. et al. (2000). "Inhibition of Keratinocyte Apoptosis by IL-15: A New Parameter in the Pathogenesis of Psoriasis?" <i>Journal of Immunology</i> 165:2240-2250.
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Examiner Signature	Date Considered
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Substitute for form 1449A/B/PTO				Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/593,851
(Use as many sheets as necessary)				Filing Date	September 22, 2006
Sheet	7	of	7	First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	LYMF-P04-007

	CH3	Yasuda, Heinosuke; Sakao, Toshihisa; Yamada Yoichi (1995). "The Knoevenagel condensation between aromatic aldehydes and ethyl cyanoacetate catalyzed by KF-betaine catalyst!" Utsunomiya Daigaku Kyoikugakubu Kyo, Dai-2-bu 45:33-41 (in Japanese with English Abstract) and ACS Abstract AN 124: 29360CA.	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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